

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/27/99

Date Received: 04/15/99

Project: Metro Self Monitor, PO# M61818

Date Samples Extracted: 04/23/99

Date Extracts Analyzed: 04/23/99

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE
FOR CHROMIUM, COPPER, NICKEL, ZINC
USING METHOD 6010**

Samples Processed Using Method 3005A

Results Reported as mg/L (ppm)

<u>Sample ID</u>	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M61818	0.42	0.33	0.21	<0.05
Method Blank	<0.05	<0.05	<0.05	<0.05

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**QUALITY ASSURANCE RESULTS
FOR TOTAL METALS BY
INDUCTIVELY COUPLED PLASMA (ICP)
(METHOD 6010)**

Laboratory Code: 904093-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	0.41	0.41	0	0-20
Copper	mg/L (ppm)	0.43	0.41	5	0-20
Nickel	mg/L (ppm)	0.39	0.40	3	0-20
Zinc	mg/L (ppm)	0.07	0.07	0	0-20

Laboratory Code: 904093-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	% Recovery MSD	Acceptance Criteria	RPD
Chromium	mg/L (ppm)	5	0.41	87	92	80-120	6
Copper	mg/L (ppm)	5	0.43	87	91	80-120	4
Nickel	mg/L (ppm)	10	0.39	85	88	80-120	3
Zinc	mg/L (ppm)	5	0.07	86	88	80-120	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD
Chromium	mg/L (ppm)	5	105	96	80-120	9
Copper	mg/L (ppm)	5	106	90	80-120	16
Nickel	mg/L (ppm)	10	106	99	80-120	7
Zinc	mg/L (ppm)	5	108	103	80-120	5

904070 mm 4/1599 CI

Send Report To:

SITE NO.

PURCHASE ORDER #

SAMPLER'S (signature)

REMARKS

Call for Instructions

SIGNATURE

COMPANY

Date _____

Time

FORMS/COC

04/02/99

AKC-0010541

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Jensen, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
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FAX: (206) 283-5044
e-mail: fbi@isomedia.com

April 27, 1999

DUPLICATE COPY

INVOICE #99ACU0427-2

Accounts Payable
Alaskan Copper Works
628 South Hanford St.
Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M61818: Results of testing requested
by Gerry Thompson for material submitted on April 15, 1999.

1 water sample analyzed for
Chromium, Copper, Nickel, and Zinc
using Method 6010 @ \$80 per sample

\$ 80.00

Amount Due

\$ 80.00

FEDERAL TAX ID (b) (6)

FRIEDMAN & BRUYA, INC.

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3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

April 27, 1999

Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford St.
Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on April 15, 1999 from your Metro Self Monitor, PO# M61818 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Manuel Marti
Project Manager

Enclosures
ACU0427R.DOC